

BNC M CLAMP for RG214 Cable

P/N: AT3B1C-4U

Product Feature:

- Connector Type : BNC
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Clamp
- Cable : RG214
- Application : General Purpose/Telecom etc



The **BNC Male Clamp connector for RG214 cable** is a **rugged, high-performance RF interface** designed specifically for double-shielded, heavy-duty coaxial lines. Its clamp mechanism provides a **secure, reusable connection** and an effective environmental seal **without the need for specialized crimping tools**. Featuring a high-precision center contact and robust bayonet coupling, it ensures **excellent power handling** and **superior EMI protection**. This connector is extensively used in **broadcast systems, high-frequency test laboratories, maritime communication networks,** and **military-grade RF equipment** where **maximum signal isolation and durability** are required.

Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 4	GHz
VSWR	≤ 1.15	@DC-2 GHz
	≤ 1.30	@2-4 GHz
Insertion Loss	≤ 0.2	@DC-4 GHz
Insulation Resistance	≥ 5000	M Ω
Dielectric Withstanding Voltage	≥ 1.5	kVrms
Inner Conductor Resistance	≤ 1.0	m Ω
Outer Conductor Resistance	≤ 0.25	m Ω
Power Handling	300	W @1GHz
RF Leakage	≤ -55	dB @1GHz



Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Phosphor Copper	Gold
Outer Conductor/Body	Brass	White Bronze
Back Nut	Brass	Nickel
Fastening Nut	Brass	Tri-Alloy
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

Mechanical & Environmental Specifications		
Parameter	Value	Unit
Durability (Matings)	≥ 500 min.	-
Contact Captivation	≥ 27	N
Coupling Nut Torque	7 - 28	Ncm
Coupling Nut Retention Force	≥ 450	N
Cable Type Compatibility	RG214 Cable	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-